

Docket No.: PF-0627 USN

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 24, 2003.

By: [Signature]

Printed: Lyza Finuliar

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tang et al.

Title: GROWTH FACTOR RELATED MOLECULES

Serial No.: 09/830,320

Filing Date: Herewith

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

Mail Stop: PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FEE TRANSMITTAL SHEET

Sir:

Transmitted herewith are the following for the above-identified application:

1. Return Receipt Postcard;
2. Response to Notification of Missing Requirements Under 35 U.S.C. § 371 (2 pp.);
3. Copy of Notification of Missing Requirements Under 35 U.S.C. § 371 (12 pp.);
4. Courtesy Copy of Return Receipt Postcard with USPTO date stamp (1 pg.);
5. Courtesy Copy of Executed Declaration (5 pp.);
6. Substitute Submission Under 37 CFR § 1.821-1.825 Sequence Listing (1 pg.);
7. One (1) Substitute CRF diskette containing the Sequence Listing; and
8. Paper Copy of Substitute Sequence Listing (10 pp.).

The fee has been calculated as shown below:

☒ No additional Fee is required.

☐ Please charge Deposit Account No. 09-0108 in the amount of : \$ _____

The Commissioner is hereby authorized to charge any additional fees required under 37 CFR 1.16 and 1.17, or credit overpayment to Deposit Account No. 09-0108. **A duplicate copy of this sheet is enclosed.**

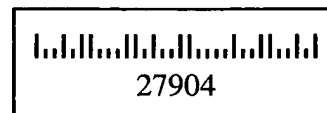
Respectfully submitted,

INCYTE CORPORATION

Date: 24 April 2003

[Signature]
for Diana Hamlet-Cox
Reg. No. 33,302
Direct Dial Telephone: (650) 845-4639

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Mail Stop: PCT Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 24, 2003.

By: Printed: Lyza Finuliar**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Tang et al.

Title: GROWTH FACTOR RELATED MOLECULES

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Commissioner for Patents
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Alexandria, VA 22313-1450

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS
UNDER 35 U.S.C. § 371**

Sir:

In response to the "Notice to File Missing Requirements under 35 U.S.C. § 371," mailed by the United States Patent and Trademark Office on February 24, 2003 (copy attached), Applicants submit the document(s) listed below to complete the filing for the above-identified patent application.

1. Submission Under 37 CFR § 1.821-1.825 Sequence Listing (1 pg.); and
2. One (1) CRF diskette containing the computer-readable information for the Sequence Listing.

Applicants note that the request for providing the oath or declaration is incorrect as the executed Declaration was submitted at the time of filing. Enclosed is a courtesy copy of the return receipt postcard with the USPTO date stamp. Also enclosed is a courtesy copy of the Declaration and Power of Attorney for United States Patent Application, Serial Number 09/830, 320, filed on April 24, 2001.

Applicants believe that no fee is due with this communication. However, if the USPTO determines that a fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 09-0108.

Docket No.: PF-0627 USN

If there are any questions regarding the above, the Examiner is invited to call the undersigned.

Respectfully submitted,

INCYTE CORPORATION

Date: 24 April 2003

Diana Hamlet-Cox Reg No. 37,027
for Diana Hamlet-Cox

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Palo Alto, California 94304
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By: 

Printed: Lyza Fimiliar

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tang et al.

Title: GROWTH FACTOR RELATED MOLECULES

Serial No.: 09/830,320

Filing Date: Herewith

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

Mail Stop: PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

SUBSTITUTE SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR § 1.821-1.825, Applicants hereby submit one (1) substitute diskette containing the computer-readable information for the Substitute Sequence Listing of the above-identified application. The substitute diskette complies with the requirements of 37 CFR § 1.824 and is IBM PC compatible using a Windows NT Operating System with WordPerfect software and saved in ASCII text format.

Enclosed is a paper copy of the Substitute Sequence Listing.

The content of the Substitute Sequence Listing paper copy is identical to the computer-readable copy, as required under 37 CFR § 1.821(f). This sequence listing contains no new matter.

Respectfully submitted,

INCYTE CORPORATION

Date: 24 April 2003


for Diana Hamlet-Cox

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Direct Dial Telephone: (650) 845-4639

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3160 Porter Drive

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Phone: (650) 855-0555

Fax: (650) 849-8886

10 Rec'd PCT/PTC 29 APR 2003

SEQUENCE LISTING

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gaattggtaa gttgcaaaga ctttttgaaa ataattaaat tatcatatct tccattcctg 2340
ttattggaga tgaaaataaa aagcaactta tgaaagtaga cattcagatc cagccattac 2400
taacctattc cttttttggg gaaatctgag cctagctcag aaaaacataa agcaccttga 2460
aaaagacttg gcagcttctc gataaagcgt gctgtgctgt gcagtaggaa cacatcctat 2520
ttattgtgat gttgtggttt tattatctta aactctgttc catacacttg tataaatata 2580
tggatatatt tatgtacaga agtatgtctc ttaaccagtt cacttattgt actctggcaa 2640
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<210> 9

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Genbank ID No.: g1536902

<400> 9

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Ser	Met	Gly	Cys	Gly	Glu	Ala	Leu	Lys	Cys	Tyr	Thr	Cys	Lys	Glu
				20					25					30
Pro	Met	Thr	Ser	Ala	Ser	Cys	Arg	Thr	Ile	Thr	Arg	Cys	Lys	Pro
				35					40					45
Glu	Asp	Thr	Ala	Cys	Met	Thr	Thr	Leu	Val	Thr	Val	Glu	Ala	Glu
				50					55					60
Tyr	Pro	Phe	Asn	Gln	Ser	Pro	Val	Val	Thr	Arg	Ser	Cys	Ser	Ser
				65					70					75
Ser	Cys	Val	Ala	Thr	Asp	Pro	Asp	Ser	Ile	Gly	Ala	Ala	His	Leu
				80					85					90
Ile	Phe	Cys	Cys	Phe	Arg	Asp	Leu	Cys	Asn	Ser	Glu	Leu		
				95					100					

<210> 10

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Genbank ID No.: g2388627

<400> 10

Met	Asn	Leu	Trp	Leu	Leu	Ala	Cys	Leu	Val	Ala	Gly	Phe	Leu	Gly
1				5					10					15
Ala	Trp	Ala	Pro	Ala	Val	His	Thr	Gln	Gly	Val	Phe	Glu	Asp	Cys
				20					25					30
Cys	Leu	Ala	Tyr	His	Tyr	Pro	Ile	Gly	Trp	Ala	Val	Leu	Arg	Arg
				35					40					45
Ala	Trp	Thr	Tyr	Arg	Ile	Gln	Glu	Val	Ser	Gly	Ser	Cys	Asn	Leu
				50					55					60
Pro	Ala	Ala	Ile	Phe	Tyr	Leu	Pro	Lys	Arg	His	Arg	Lys	Val	Cys
				65					70					75
Gly	Asn	Pro	Lys	Ser	Arg	Glu	Val	Gln	Arg	Ala	Met	Lys	Leu	Leu
				80					85					90
Asp	Ala	Arg	Asn	Lys	Val	Phe	Ala	Lys	Leu	His	His	Asn	Met	Gln
				95					100					105
Thr	Phe	Gln	Ala	Gly	Pro	His	Ala	Val	Lys	Lys	Leu	Ser	Ser	Gly
				110					115					120
Asn	Ser	Lys	Leu	Ser	Ser	Ser	Lys	Phe	Ser	Asn	Pro	Ile	Ser	Ser
				125					130					135
Ser	Lys	Arg	Asn	Val	Ser	Leu	Leu	Ile	Ser	Ala	Asn	Ser	Gly	Leu
				140					145					150

<210> 11
 <211> 343
 <212> PRT
 <213> Gallus gallus

<220>
 <221> misc_feature
 <223> Genbank ID No.: g853834

<400> 11
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 Phe Leu Tyr His Phe Met Glu Asp His Thr Ala Gln Ala Gly Asn
 20 25 30
 Cys Trp Leu Arg Gln Ala Arg Asn Gly Arg Cys Gln Val Leu Tyr
 35 40 45
 Lys Thr Asp Leu Ser Lys Glu Glu Cys Cys Lys Ser Gly Arg Leu
 50 55 60
 Thr Thr Ser Trp Thr Glu Glu Asp Val Asn Asp Asn Thr Leu Phe
 65 70 75
 Lys Trp Met Ile Phe Asn Gly Gly Ala Pro Asn Cys Ile Pro Cys
 80 85 90
 Lys Glu Thr Cys Glu Asn Val Asp Cys Gly Pro Gly Lys Lys Cys
 95 100 105
 Lys Met Asn Lys Lys Asn Lys Pro Arg Cys Val Cys Ala Pro Asp
 110 115 120
 Cys Ser Asn Ile Thr Trp Lys Gly Pro Val Cys Gly Leu Asp Gly
 125 130 135
 Lys Thr Tyr Arg Asn Glu Cys Ala Leu Leu Lys Ala Arg Cys Lys
 140 145 150
 Glu Gln Pro Glu Leu Glu Val Gln Tyr Gln Gly Lys Cys Lys Lys
 155 160 165
 Thr Cys Arg Asp Val Leu Cys Pro Gly Ser Ser Thr Cys Val Val
 170 175 180
 Asp Gln Thr Asn Asn Ala Tyr Cys Val Thr Cys Asn Arg Ile Cys
 185 190 195
 Pro Glu Pro Thr Ser Pro Glu Gln Tyr Leu Cys Gly Asn Asp Gly
 200 205 210
 Ile Thr Tyr Ala Ser Ala Cys His Leu Arg Lys Ala Thr Cys Leu
 215 220 225
 Leu Gly Arg Ser Ile Gly Leu Ala Tyr Glu Gly Lys Cys Ile Lys
 230 235 240
 Ala Lys Ser Cys Glu Asp Ile Gln Cys Ser Ala Gly Lys Lys Cys
 245 250 255
 Leu Trp Asp Phe Lys Val Gly Arg Gly Arg Cys Ala Leu Cys Asp
 260 265 270
 Glu Leu Cys Pro Glu Ser Lys Ser Asp Glu Ala Val Cys Ala Ser
 275 280 285
 Asp Asn Thr Thr Tyr Pro Ser Glu Cys Ala Met Lys Glu Ala Ala
 290 295 300
 Cys Ser Met Gly Val Leu Leu Glu Val Lys His Ser Gly Ser Cys
 305 310 315
 Asn Ser Ile Asn Glu Asp Pro Glu Glu Glu Glu Glu Asp Glu Asp
 320 325 330
 Gln Asp Tyr Ser Phe Pro Ile Ser Ser Ile Leu Glu Trp
 335 340

<210> 12
 <211> 730
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Genbank ID No.: g179500

<400> 12
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 1 5 10 15
 Leu Pro Arg Pro Gly Arg Pro Leu Asp Leu Ala Asp Tyr Thr Tyr
 20 25 30
 Asp Leu Ala Glu Glu Asp Asp Ser Glu Pro Leu Asn Tyr Lys Asp
 35 40 45
 Pro Cys Lys Ala Ala Ala Phe Leu Gly Asp Ile Ala Leu Asp Glu
 50 55 60
 Glu Asp Leu Arg Ala Phe Gln Val Gln Gln Ala Val Asp Leu Arg
 65 70 75
 Arg His Thr Ala Arg Lys Ser Ser Ile Lys Ala Ala Val Pro Gly
 80 85 90
 Asn Thr Ser Thr Pro Ser Cys Gln Ser Thr Asn Gly Gln Pro Gln
 95 100 105
 Arg Gly Ala Cys Gly Arg Trp Arg Gly Arg Ser Arg Ser Arg Arg
 110 115 120
 Ala Ala Thr Ser Arg Pro Glu Arg Val Trp Pro Asp Gly Val Ile
 125 130 135
 Pro Phe Val Ile Gly Gly Asn Phe Thr Gly Ser Gln Arg Ala Val
 140 145 150
 Phe Arg Gln Ala Met Arg His Trp Glu Lys His Thr Cys Val Thr
 155 160 165
 Phe Leu Glu Arg Thr Asp Glu Asp Ser Tyr Ile Val Phe Thr Tyr
 170 175 180
 Arg Pro Cys Gly Cys Cys Ser Tyr Val Gly Arg Arg Gly Gly Gly
 185 190 195
 Pro Gln Ala Ile Ser Ile Gly Lys Asn Cys Asp Lys Phe Gly Ile
 200 205 210
 Val Val His Glu Leu Gly His Val Val Gly Phe Trp His Glu His
 215 220 225
 Thr Arg Pro Asp Arg Asp Arg His Val Ser Ile Val Arg Glu Asn
 230 235 240
 Ile Gln Pro Gly Gln Glu Tyr Asn Phe Leu Lys Met Glu Pro Gln
 245 250 255
 Glu Val Glu Ser Leu Gly Glu Thr Tyr Asp Phe Asp Ser Ile Met
 260 265 270
 His Tyr Ala Arg Asn Thr Phe Ser Arg Gly Ile Phe Leu Asp Thr
 275 280 285
 Ile Val Pro Lys Tyr Glu Val Asn Gly Val Lys Pro Pro Ile Gly
 290 295 300
 Gln Arg Thr Arg Leu Ser Lys Gly Asp Ile Ala Gln Ala Arg Lys
 305 310 315
 Leu Tyr Lys Cys Pro Ala Cys Gly Glu Thr Leu Gln Asp Ser Thr
 320 325 330
 Gly Asn Phe Ser Ser Pro Glu Tyr Pro Asn Gly Tyr Ser Ala His

Met His Cys Val	335	340	345
Trp Arg Ile Ser Val	350	355	360
Ile Leu Asn Phe	365	370	375
Trp Tyr Asp Tyr	380	385	390
Pro Leu Arg Gly	395	400	405
Val Ser Thr Asp	410	415	420
Asn Trp Val Gly	425	430	435
Gly Gly Asp Val	440	445	450
Tyr Pro Asp Asp	455	460	465
Gln Val Ser Glu	470	475	480
Glu Ile Glu Arg	485	490	495
Arg Asp Gly His	500	505	510
Gly Tyr Glu Lys	515	520	525
Trp Leu Lys Phe	530	535	540
Ala Val Asn Phe	545	550	555
Arg Gly Gly Cys	560	565	570
Lys Cys Ser Cys	575	580	585
Arg Cys Glu Ala	590	595	600
Ser Ile Thr Ser	605	610	615
Asn Cys Ile Trp	620	625	630
Leu Gln Phe Asp	635	640	645
Tyr Asp Phe Val	650	655	660
Leu His Gly Lys	665	670	675
Ser Gln Tyr Asn	680	685	690
Val Ser Lys Lys	695	700	705
Pro Ala Leu Gln	710	715	720
Arg Val Gln Lys	725	730	



UNITED STATES PATENT AND TRADEMARK OFFICE

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 United States Patent and Trademark Office
 Washington, D.C. 20231
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U.S. APPLICATION NUMBER NO. 09/830,320	FIRST NAMED APPLICANT Y. Tom Tang	ATTY. DOCKET NO. PF-0627 USN
INTERNATIONAL APPLICATION NO. PCT/US99/25458		
I.A. FILING DATE 10/28/1999	PRIORITY DATE 10/28/1998	

Incyte Genomics
 3160 Porter Drive
 Palo Alto, CA 94304

CONFIRMATION NO. 6653
 371 FORMALITIES LETTER

 OC000000009481002

Date Mailed: 02/24/2003

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fees
- Priority Document
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Oath or Declaration

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- **\$130** Surcharge for providing the oath or declaration later than the appropriate 30 months from the priority date (37 CFR 1.492(e)) is required.

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$130** for a Large Entity:

- **\$130** Late oath or declaration Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTH FROM THE DATE OF THIS NOTICE OR BY 22 or 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

CHRISTINE S WASHINGTON

Telephone: (703) 305-3752

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/830,320	PCT/US99/25458	PF-0627 USN